

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P647527

Luminaire Tested: **GALN-SA6D-835-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P647527
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-835-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35945.2 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

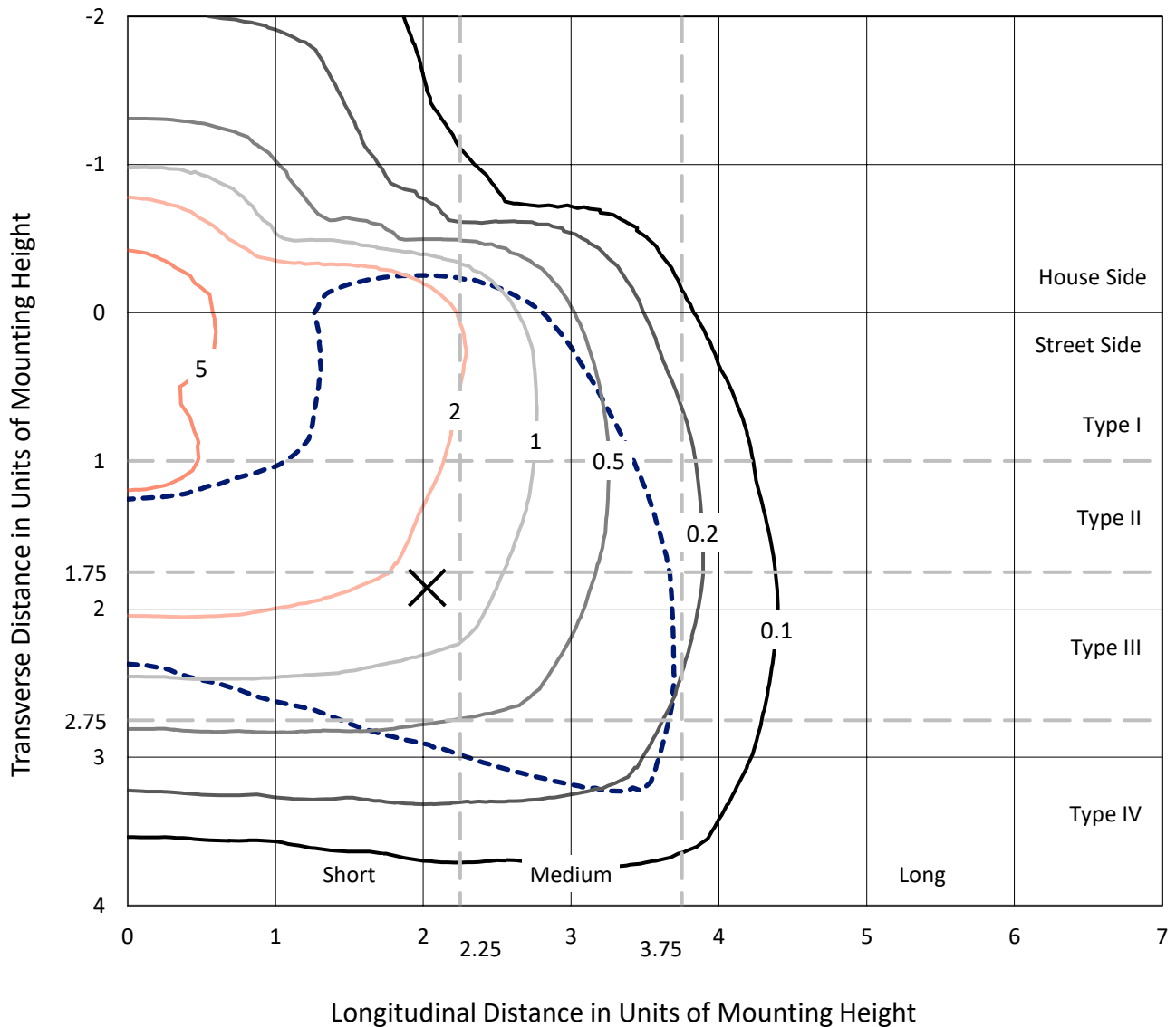
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

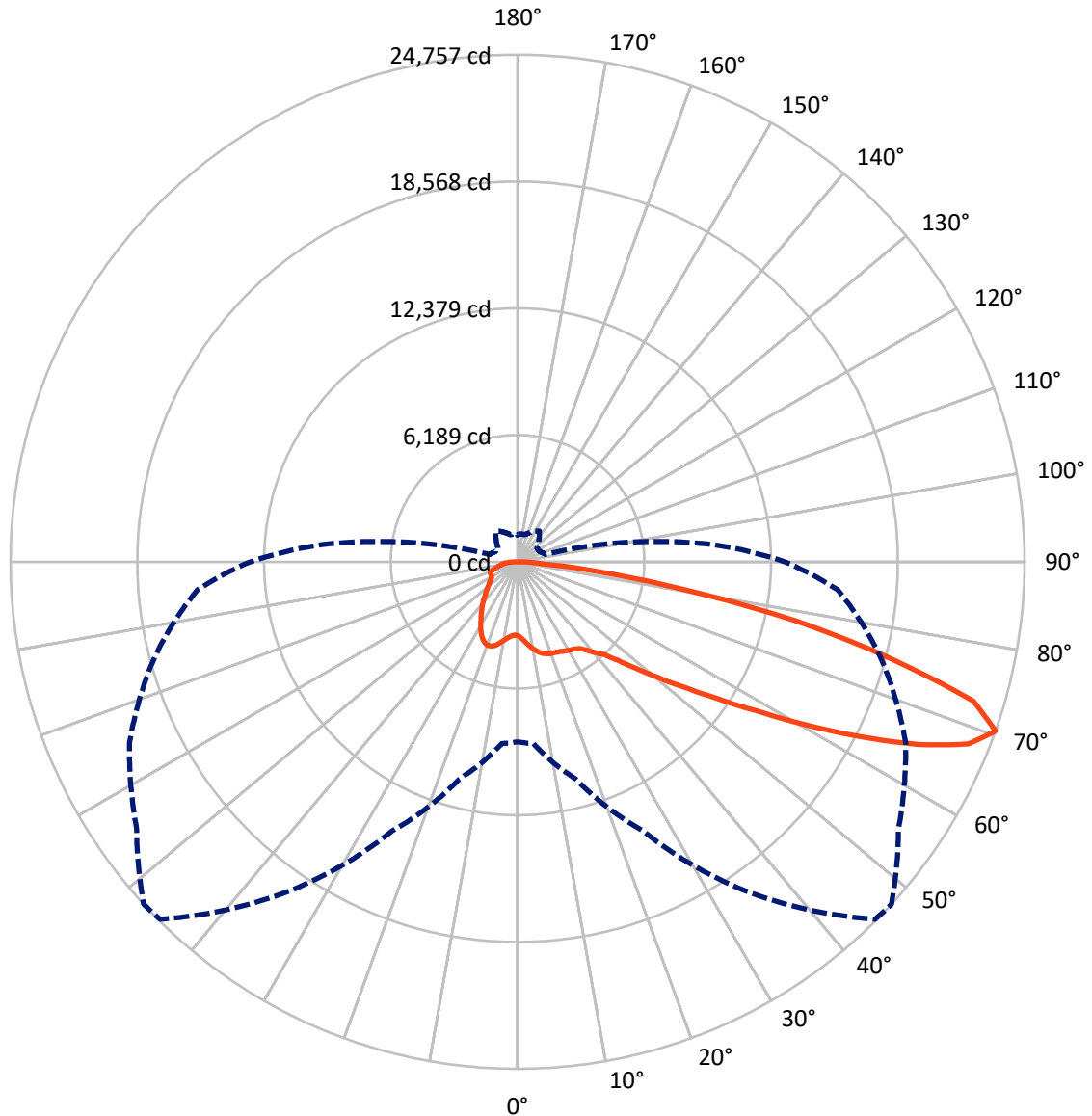
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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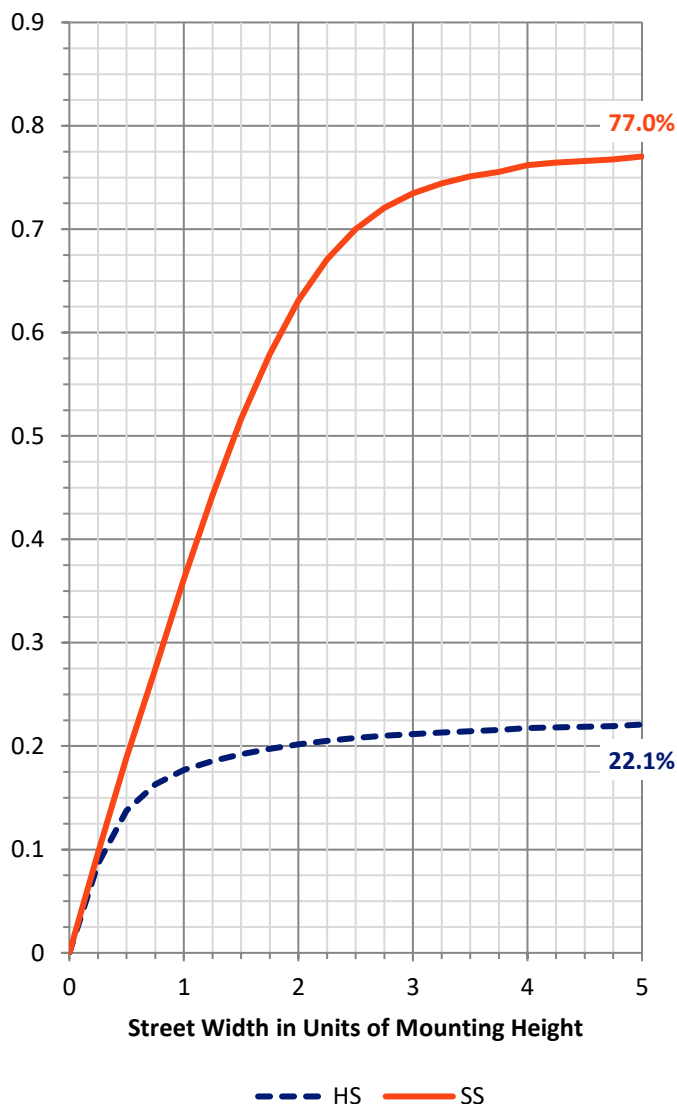
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8138.7	0.0	8138.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	27806.5	0.0	27806.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	35945.2	0.0	35945.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.0	1.0
10°-20°	1243.5	3.5
20°-30°	2067.9	5.8
30°-40°	2930.9	8.2
40°-50°	4326.7	12.0
50°-60°	7494.0	20.8
60°-70°	10585.5	29.4
70°-80°	6085.1	16.9
80°-90°	839.6	2.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	35945.2	100.0
0°-180°	35945.2	100.0

Coefficient of Utilization



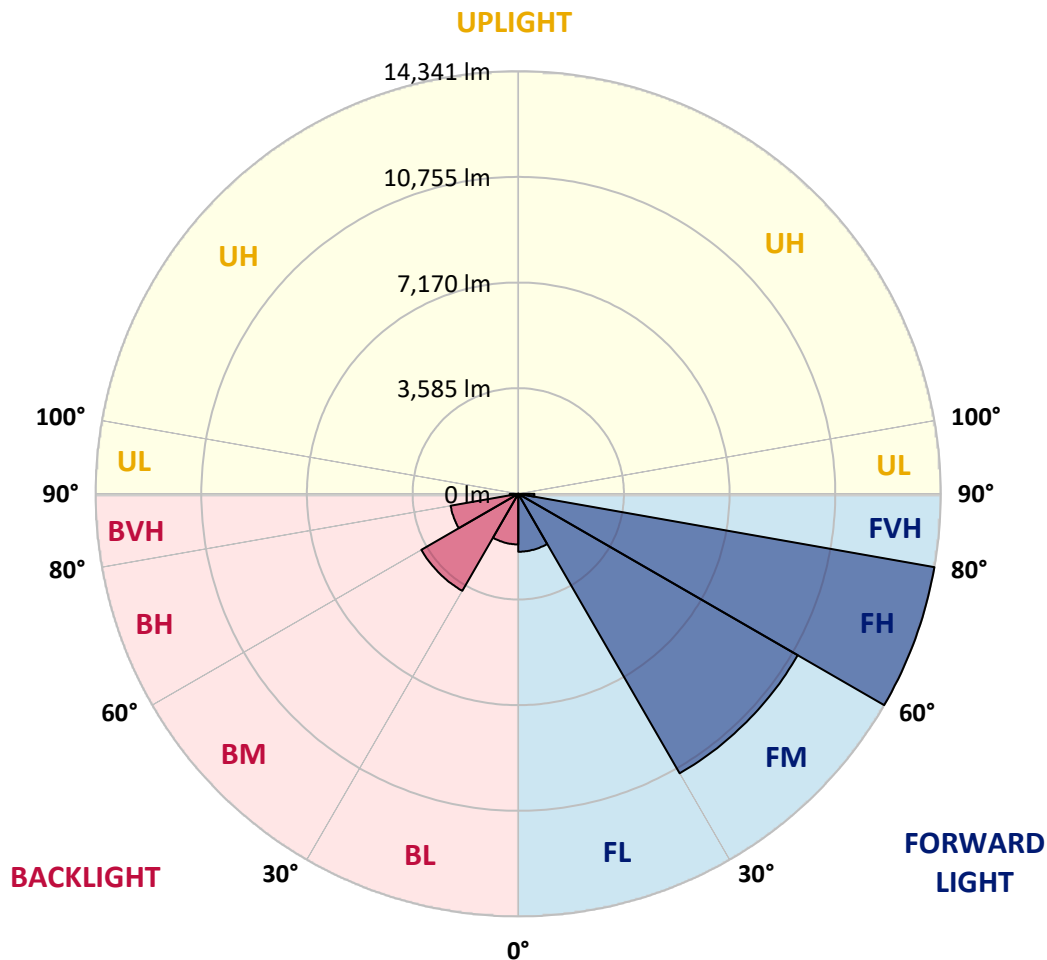
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1965.6	5.5			
FM (30°-60°)	10951.8	30.5			
FH (60°-80°)	14340.6	39.9			G5
FVH (80°-90°)	548.5	1.5			G4/750
BL (0°-30°)	1717.7	4.8	B3/2500		
BM (30°-60°)	3799.8	10.6	B3/5000		
BH (60°-80°)	2330.0	6.5	B3/2500		G3/2500
BVH (80°-90°)	291.2	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5
2.5°	3841.2	3827.8	3825.8	3797.0	3781.6	3752.8	3741.2	3714.2	3681.6	3648.9	3618.1
5°	4143.2	4143.2	4129.7	4089.4	4025.9	3960.5	3931.6	3879.7	3787.4	3712.4	3648.9
7.5°	4452.8	4456.8	4429.8	4370.2	4279.8	4173.9	4147.0	4070.1	3939.3	3829.7	3735.4
10°	4720.2	4720.2	4683.7	4602.9	4489.4	4374.0	4347.1	4260.5	4114.4	3977.8	3854.7
12.5°	4924.1	4924.1	4876.1	4770.3	4647.2	4543.3	4512.5	4429.8	4293.2	4141.3	3985.5
15°	5056.8	5047.2	4993.3	4874.1	4754.8	4664.5	4643.3	4574.1	4449.0	4295.1	4120.1
17.5°	5062.6	5058.8	5006.8	4906.8	4802.9	4741.4	4727.9	4681.8	4583.7	4437.5	4252.9
20°	4951.1	4958.7	4924.1	4853.0	4802.9	4776.0	4770.3	4754.8	4685.6	4549.1	4364.4
22.5°	4831.8	4845.3	4812.6	4774.1	4770.3	4797.2	4801.0	4804.9	4760.6	4627.9	4458.6
25°	4802.9	4812.6	4779.9	4745.2	4766.4	4837.6	4853.0	4868.4	4833.7	4722.2	4570.2
27.5°	4949.1	4941.4	4877.9	4802.9	4816.4	4912.6	4933.8	4951.1	4933.8	4837.6	4708.7
30°	5362.7	5337.7	5210.7	4991.5	4922.2	4989.5	5010.7	5058.8	5058.8	4987.6	4858.7
32.5°	6055.2	6007.0	5774.3	5343.4	5103.0	5062.6	5083.8	5162.6	5203.0	5147.3	5006.8
35°	6895.7	6845.7	6512.9	5934.0	5433.9	5208.8	5203.0	5291.5	5399.3	5274.2	5091.5
37.5°	7740.1	7688.2	7288.1	6638.0	5916.7	5516.5	5481.9	5512.7	5558.9	5330.0	5208.8
40°	8584.5	8523.0	8172.9	7424.6	6507.1	5924.3	5834.0	5695.5	5676.2	5512.7	5435.7
42.5°	9421.2	9365.5	9188.5	8307.6	7215.0	6322.5	6184.0	5945.5	6018.6	5920.5	5853.2
45°	10265.7	10269.5	10081.0	9298.1	8069.0	7057.3	6870.7	6497.6	6670.7	6634.1	6672.6
47.5°	11013.9	11004.3	10936.9	10259.9	9128.8	8003.7	7763.2	7330.4	7626.7	7761.3	8055.6
50°	11739.0	11733.3	11737.1	11350.5	10359.9	9128.8	8863.4	8409.5	9076.9	9544.4	10071.4
52.5°	12777.7	12810.4	12577.7	12475.8	11856.3	10458.0	10165.6	9696.3	10790.8	11527.5	12556.5
55°	13820.3	13793.3	13610.6	13716.4	13422.1	12031.4	11725.6	11352.4	12698.9	13504.8	15051.3
57.5°	14433.8	14443.5	14630.0	15147.4	15355.2	13993.4	13716.4	13427.9	14843.6	15414.8	17271.0
60°	14985.9	15030.2	15566.8	16543.9	17107.5	16403.5	16157.3	15876.5	16811.3	17038.2	19198.3
62.5°	15159.0	15295.6	16232.3	17694.2	18815.6	19123.3	18817.4	18198.1	18684.7	18596.2	20504.4
65°	14295.4	14482.0	16161.1	18125.0	20340.9	21704.6	21510.3	20360.1	20281.3	19748.4	20717.9
67.5°	12021.8	12208.4	14364.6	17221.0	20971.8	23939.8	23745.5	21937.4	21250.7	19856.2	19102.1
70°	8796.1	8913.4	10975.4	14499.3	19704.2	24689.9	24757.2	22706.8	20904.5	18392.4	15684.1
72.5°	5068.4	5328.1	6772.6	10200.2	16097.7	22793.4	23260.7	21106.5	18715.5	15343.7	10965.8
75°	2179.3	2185.1	3131.5	5626.2	10902.3	18321.3	18773.2	17496.1	14697.4	10610.0	5855.1
77.5°	1036.8	1056.0	1377.2	2512.1	6001.3	12658.4	13878.0	12360.4	9400.1	5097.3	2212.0
80°	673.2	686.7	842.5	1246.5	2942.9	7340.0	8190.2	7130.4	4147.0	1821.6	954.1
82.5°	407.8	411.6	563.6	761.7	1619.6	3323.8	3918.1	3094.9	1769.6	1090.6	561.6
85°	248.1	250.1	342.4	471.3	982.9	1148.3	1179.1	1169.5	1038.6	713.6	300.0
87.5°	119.3	123.1	177.0	223.2	386.6	355.9	336.6	390.5	490.5	384.7	128.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5	3608.5
2.5°	3604.6	3598.8	3585.4	3579.6	3575.7	3577.7	3575.7	3575.7	3577.7	3577.7	3577.7
5°	3621.9	3612.3	3591.2	3591.2	3602.7	3629.6	3654.7	3673.8	3695.1	3693.1	3693.1
7.5°	3696.9	3679.6	3654.7	3662.3	3691.1	3733.5	3777.7	3820.0	3862.4	3866.2	3864.3
10°	3806.6	3789.3	3762.3	3771.9	3818.1	3881.6	3937.4	3998.9	4045.1	4058.5	4054.7
12.5°	3931.6	3897.0	3873.9	3900.8	3974.0	4058.5	4112.4	4158.6	4191.2	4210.5	4202.8
15°	4058.5	4025.9	3998.9	4054.7	4143.2	4222.1	4248.9	4256.7	4262.4	4281.7	4277.8
17.5°	4181.7	4137.5	4127.8	4200.9	4285.5	4320.1	4304.8	4272.0	4247.1	4262.4	4260.5
20°	4291.3	4256.7	4252.9	4325.9	4358.6	4325.9	4260.5	4202.8	4158.6	4162.4	4160.5
22.5°	4395.1	4368.3	4372.1	4402.9	4350.9	4239.4	4131.7	4052.8	4004.7	4014.3	4020.1
25°	4510.5	4483.6	4493.2	4443.3	4272.0	4077.8	3922.0	3854.7	3835.4	3854.7	3868.1
27.5°	4660.6	4643.3	4637.6	4445.2	4131.7	3839.3	3662.3	3637.3	3654.7	3696.9	3718.1
30°	4822.2	4822.2	4791.4	4412.5	3939.3	3552.7	3398.8	3402.7	3462.3	3521.9	3543.1
32.5°	4978.0	5010.7	4914.5	4324.0	3691.1	3273.8	3156.4	3160.3	3212.3	3285.3	3304.6
35°	5106.9	5201.1	5020.3	4162.4	3398.8	3039.1	2950.7	2898.7	2900.6	2956.4	2971.8
37.5°	5283.8	5458.8	5081.8	3922.0	3087.2	2839.1	2739.0	2648.7	2589.0	2566.0	2566.0
40°	5591.6	5849.3	5097.3	3566.2	2792.9	2648.7	2506.3	2398.6	2283.1	2179.3	2160.1
42.5°	6112.9	6437.9	5066.5	3156.4	2527.4	2439.0	2300.5	2167.7	2008.2	1862.0	1850.4
45°	7036.1	7203.4	4983.8	2731.3	2290.9	2237.0	2102.4	1958.1	1788.8	1658.1	1648.4
47.5°	8515.3	8278.7	4874.1	2354.3	2075.4	2060.1	1956.2	1788.8	1619.6	1529.2	1519.6
50°	10675.3	9971.3	4858.7	2081.2	1902.3	1910.1	1825.4	1671.5	1523.4	1448.4	1436.9
52.5°	13275.9	12016.0	4960.7	1888.8	1750.4	1779.2	1736.9	1594.6	1463.7	1400.3	1388.7
55°	15799.5	13854.9	5022.2	1738.8	1608.0	1661.9	1667.6	1548.4	1429.1	1365.7	1358.0
57.5°	17848.0	15239.8	4749.1	1602.3	1485.0	1567.6	1609.9	1521.4	1411.8	1363.8	1356.1
60°	19273.4	15893.8	3972.0	1481.1	1394.5	1492.6	1588.8	1523.4	1454.2	1459.9	1463.7
62.5°	19727.3	15603.3	2979.5	1390.7	1333.0	1467.7	1623.4	1602.3	1531.1	1575.3	1583.1
65°	18975.2	14403.1	2160.1	1319.5	1279.1	1485.0	1727.3	1660.0	1504.1	1536.9	1536.9
67.5°	16457.3	12408.4	1681.1	1254.1	1217.6	1517.6	1831.1	1654.2	1440.7	1479.2	1444.6
70°	13054.7	9598.2	1400.3	1181.0	1152.2	1469.5	1840.8	1594.6	1365.7	1373.4	1308.0
72.5°	8663.4	6311.0	1204.1	1111.8	1052.1	1321.5	1761.9	1517.6	1292.6	1248.3	1183.0
75°	4245.1	3146.8	1050.2	1025.2	921.4	1150.2	1654.2	1444.6	1213.7	1144.5	1107.9
77.5°	1644.6	1338.8	896.4	915.6	802.1	1013.7	1511.9	1340.7	1109.8	1015.6	986.7
80°	798.3	759.7	734.8	763.7	659.8	863.6	1381.1	1250.3	1013.7	909.8	867.5
82.5°	496.3	469.3	563.6	594.4	507.8	788.6	1309.9	1173.3	892.5	754.0	719.4
85°	252.0	269.3	377.0	405.8	363.5	627.0	1079.1	881.0	644.3	534.7	538.5
87.5°	96.2	128.9	198.1	213.5	194.3	330.8	594.4	513.6	413.6	280.9	259.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)